## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 September 2005 (15.09.2005)

## PCT

## (10) International Publication Number WO 2005/086378 A1

(51) International Patent Classification7:

\_\_\_\_

H04B 7/26

(21) International Application Number:

PCT/KR2005/000600

(22) International Filing Date: 4 March 2005 (04.03.2005)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data:

 10-2004-0014700
 4 March 2004 (04.03.2004)
 KR

 10-2004-0022954
 2 April 2004 (02.04.2004)
 KR

 10-2004-0022949
 2 April 2004 (02.04.2004)
 KR

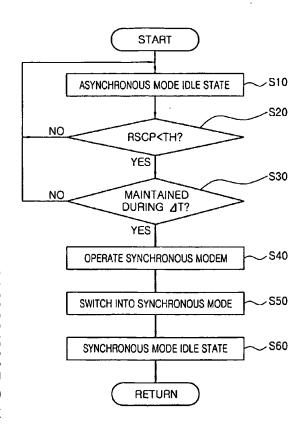
 10-2004-0033866
 13 May 2004 (13.05.2004)
 KR

(71) Applicant (for all designated States except US): SK TELECOM CO., LTD. [KR/KR]; 99, Scorin-dong, Jongno-gu, Seoul 110-110 (KR).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KIM, Nam-Gun [KR/KR]; 1469-19, Seocho 3-dong, Seocho-gu, Scoul 137-073 (KR). KIM, Young-Lak [KR/KR]; 104-1306, Sinil Apt., Eonnam-ri, Guseong-eup, Yongin-si, Gyeonggi-do 449-915 (KR). KIM, Hyun-Wook [KR/KR]; 701-202, Jeongdeunmaeul Hanjin Apt., 194, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-757 (KR). HAN, Chang-Moon [KR/KR]; 108-506, Gwanak Hyundai Apt, 407, Sangdo 5-dong, Dongjak-gu, Seoul 156-781 (KR).
- (74) Agent: NAM, Sang-Sun; 9th Fl., Maekyung Media Center, 30, 1-ga, Pil-dong, Jung-ku, Seoul 100-728 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

[Continued on next page]

(54) Title: MULTI-MODE MULTI-BAND MOBILE COMMUNICATION TERMINAL AND MODE SWITCHING METHOD THEREOF



(57) Abstract: Disclosed is a multi-mode multi-band mobile communication terminal and a mode switching method thereof wherein a mode switching can be performed between an asynchronous network and a synchronous network by minimizing interruption in communication. According to the switching method of a multi-mode multi-band mobile communication terminal, the power of a signal received from an asynchronous network or a synchronous network is measured and the measured power of the received signal drives a modem portion, thereby switching the mode of the mobile communication terminal.